

SKYLight™


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camera and collimator specifications

Type	Hole Shape	Size (mm)	Septa (mm)	Length (mm)	# Holes	Septa Penetration (%) (keV)		Relative Sensitivity ⁽¹⁾	Spatial Resolution Geometric 10 cm	Spatial Resolution System ⁽⁷⁾ 10 cm
LEGP	HEX	1.40	0.180	24.7	86,400	1.9	140	1.0	8.0	8.8
LEHR	HEX	1.40	0.152	32.8	89,600	1.3	140	0.55	6.3	7.4
VXGP	HEX	1.78	0.152	42.0	58,700	1.2	140	0.6	6.7	7.8
VXHR	HEX	2.03	0.152	54.0	42,600	0.6	140	0.5	6.4	7.4
VXUR ⁽⁶⁾	HEX	1.78	0.152	54.0	58,700	0.3	140	0.4	5.6	6.7
MEGP	HEX	2.95	1.143	48.0	12,900	3.3	300	0.8 ⁽²⁾	10.7	11.3
HEGP	HEX	3.81	1.727	60.0	7,000	3.5	364	0.4 ⁽³⁾	12.0	12.5
HEHR	HEX	3.06	1.95	60.0	8,600	1.3	364	0.2 ⁽³⁾	9.6	10.4
HEPH	ROUND	3.0	25.4	220.0	1	—	— ⁽⁴⁾	0.3 ⁽⁵⁾	—	—
		4.0	25.4	220.0	1	—	— ⁽⁴⁾	0.5 ⁽⁵⁾	—	—
		5.0	25.4	220.0	1	—	— ⁽⁴⁾	0.8 ⁽⁵⁾	—	—

⁽¹⁾ Sensitivity I = 265 cpm/μCi using LEGP collimator, Tc-99m with 20% window, 9.5 mm thick crystal.

⁽²⁾ Gallium 67 20% window 93 keV, 184 keV, 300 keV photo peaks.

⁽³⁾ Relative sensitivity is for I-131.

⁽⁴⁾ The pinhole collimator is rated for 364 keV and has 25.4 cm F.O.V. at the crystal.

⁽⁵⁾ Relative sensitivity is for Tc-99m at 10 cm from the pinhole.

⁽⁶⁾ On special request only.

⁽⁷⁾ For 9.5 mm thick crystal.

Note: Sensitivity numbers are NEMA Class Standards and are ±7%.

COLLIMATORS

		Mass (kg)
LEGP	Low Energy General Purpose	50
LEHR	Low Energy High Resolution	52
VXGP	Vertex General Purpose	50
VXHR	Vertex High Resolution	54
VXUR	Vertex Ultra High Resolution	57
MEGP	Medium Energy General Purpose	84
HEGP	High Energy General Purpose	111
HEPH	High Energy Pinhole	115

Note: These are the mass of the complete collimator.

PHILIPS

SYSTEM SPECIFICATIONS

EPIC™ HP DETECTOR

- Non-angar digital detector
- Field of view (rectangular)
- Crystal thickness
- Photomultiplier tubes
- Lead shielding
- Shielding to UFOV distance
- Variable magnification
- FlexLOGIC
- TeleLOGIC

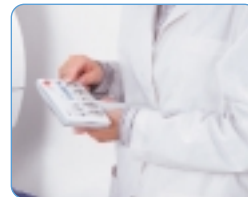
1 ADC/PMT
15" x 20" (38.1 x 50.8 cm)
0.375" (9.5 mm)
55
700 keV
3.7" (9.4 cm)
1.0x, 1.46x, 1.85x, 2.19x
"softwired" tuning
remote diagnostics



JETStream™ ACQUISITION

- Mobile acquisition console
- Spectrum analyzers
- Energy range
- Window adjustment
- Spectrum display
- Count capacity
- Preset count and/or time
- Image orientation
- Patient position display

18" flat panel monitor, keyboard, and trackball/mouse
16
56–920 keV
1% to entire energy range
color-coded, graphical, fully interactive
32K per channel
1 ct. to 2 billion cts., 1 sec. to >1,000 min.
0°, 90°, 180°, and 270°
2 sec. to infinity, decay-based persistence or fixed refresh



SKYTable™

- Type
- Thickness
- Attenuation
- Dimensions
- Height (from floor)
- Weight capacity

high modulus carbon fiber
0.2" (5.0 mm)
<7% @ 140 keV
114"L x 28"W (290 cm x 66 cm)
19" to 35" (48 cm–89 cm)
500 lbs. (227 kg)



TOTAL BODY

- Scan length
- Scan speed

78" (198 cm) with imaging table
0.8–71 in/min. (2–180 cm/min.)

EMISSION TOMOGRAPHY

- ECT rotation
- Angular sampling
- Speed of rotation
- Scan diameter (with LEGP)
- ECT manual rotation speeds
- Detector relative positions

405°
1.4° to 90°
2.0 rpm
<1"–29" (<2.5 cm–73.6 cm)
0.5 and 1.33 rpm
90° and 180°

COLLIMATOR EXCHANGER SYSTEM AND STORAGE

- Exchanger type
- Collimator storage
- Collimator types

automatic
8 units/4 pairs (12 units/6 pairs optional)
LE, ME, HE

UNIQUE FEATURES

- DualPlanar
- Concurrent imaging

maximum of two simultaneous planar patient acquisitions
up to 15 simultaneous data sets from a single acquisition

PHILIPS MEDICAL SYSTEMS

540 Alder Drive
Milpitas, CA 95035
800-538-8531
www.medical.philips.com

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